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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/626,390	07/24/2003	Robert H. Wham	2155 CIP 2 A	9811
	7590 04/13/2007 TES SURGICAL,	EXAMINER		
A DIVISION O	F TYCO HEALTHCARI	PEFFLEY, MICHAEL F		
195 MCDERMOTT ROAD NORTH HAVEN, CT 06473			ART UNIT	PAPER NUMBER
110111111111			3739	
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MO	NTHS	04/13/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Office Action Summary		Application No. Applicant(s)			
		10/626,390	WHAM ET AL.		
		Examiner	Art Unit		
		Michael Peffley	3739		
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with	the correspondence addre	ess	
WHIC - External after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Operiod for reply is specified above, the maximum statutory period we re to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICA (6(a). In no event, however, may a reply ill apply and will expire SIX (6) MONTH cause the application to become ABAN	TION. y be timely filed S from the mailing date of this comr	•	
Status				•	
2a)⊠	Responsive to communication(s) filed on <u>21 Fee</u> This action is FINAL . 2b) This Since this application is in condition for allowant closed in accordance with the practice under E	action is non-final. ce except for formal matters	•	nerits is	
Dispositi	on of Claims				
5)	Claim(s) 1-18 and 28-46 is/are pending in the at 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) 1-18 and 28-46 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or on Papers The specification is objected to by the Examiner The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction The oath or declaration is objected to by the Examiner The oath or declaration is objecte	election requirement. epted or b) objected to by drawing(s) be held in abeyance on is required if the drawing(s)	. See 37 CFR 1.85(a). is objected to. See 37 CFR		
Priority u	ınder 35 U.S.C. § 119				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
2) 🔲 Notice 3) 🔀 Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date 2/12/2067	Paper No(s)/M	nmary (PTO-413) flail Date rmal Patent Application		

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Applicant's amendments and comments, received February 21, 2007, have been fully considered by the examiner. The following is a complete response to the February 21, 2007 communication.

It is noted that the claim for priority is not in accordance with 37 CFR 1.78. The amendment to the specification filed on May 5, 2006 provided a priority claim that failed to indicate the relationship (e.g. Continuation or CIP) of the instant application with the parent applications. See MPEP 201.11(III)(A). It is noted that applicant has timely filed the priority claim in the specification, but has subsequently amended the priority claim in a manner that is not in conformance with the rules.

Also, the Brief Description of the Drawings only makes reference to "Figure 7".

The drawings include Figure 7a and Figure 7b. The Brief Description of the Drawings should be amended to provide reference to Figures 7a and 7b.

Claim Rejections - 35 USC § 103

1-13, 16-18, 28-40 and 43-46 are rejected under 35 U.S.C. 103(a) as being unpatentable over Miller, III (5,836,943) in view of the teaching of Malis et al (5,318,563).

Miller discloses an electrosurgical system and method of treating tissue that comprises a controller for controlling the output pulses of the generator in response to measured tissue characteristics. In particular, Miller specifically teaches that impedance and/or rate of change of impedance is used to control the output of the generator in a method for treating tissue (col. 6, lines 13-61). As disclosed at column 12, lines 64 through column 13, line 10, tissue impedance is measured between pulses,

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and the generator is then regulated to control subsequent output pulses of the generator. Output pulses are controlled by varying the duty cycle and the magnitude of the output voltage (col. 10, lines 11-20). The Miller reference is silent with regard to the length of the sensing signal (i.e. first pulse). It is noted, however, that Miller clearly teach the use of a low-level measurement pulse that is used to sense complex impedance between pulses of the RF treatment energy (see col. 12, line 64 to col. 13, line 10). The examiner maintains that such a measurement pulse would inherently not cause excessive heating of tissue. Moreover, Miller states that the period over which the complex impedance may change may be between 1 millisecond and up to one second (col. 6, lines 40-50). Hence, while Miller alludes to a sensing signal that may be only 1 millisecond, there is no express disclosure of the pulse duration and/or the time between pulses in which the complex impedance is measured.

Malis et al disclose an analogous RF generator system that monitors parameters, such as impedance, to control the output of the generator. In particular, Malis et al teach of know typical values for pulse durations and time between pulses in electrosurgical systems (see col. 8, lines 60 to col. 9, line 8). Specifically, Malis et al disclose microsecond off periods for RF generators. The examiner maintains that the use of similar on/off periods in the Miller system would be well within the purview of the skilled artisan in view of the teaching of Malis et al and would fairly result in the invention as claimed in the rejected claims.

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Claims 14, 15, 41 and 42 are rejected under 35 U.S.C. 103(a) as being unpatentable over Miller, III ('943) and Malis et al ('563) and further in view of the teaching of Yates et al (5,558,671).

As addressed above, Miller discloses a system and method for controlling output pulses of a generator for coagulating (i.e. sealing) tissue by monitoring tissue impedance after a pulse (i.e. between pulses) and using the measured impedance to control subsequent pulses. Malis et al discloses typical and/or known pulse periods for RF generator systems. Miller does not disclose the use of a look-up table as the means to arrive at the values for the subsequent pulses.

Yates et al disclose another tissue sealing device that relies on impedance feedback to control the output of an RF generator. In particular, Yates et al disclose various algorithms for controlling future application of energy based on the sensed impedance including using a look-up table to determine future energy applications (col. 8, lines 8-22).

To have provided the Miller, III system with a look-up table as a means to determine output levels for a generator in response to sensed tissue impedance would have been an obvious consideration for one of ordinary skill in the art in view of the teaching of Yates et al.

Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct

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from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., In re Berg, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); In re Goodman, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); In re Longi, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); In re Van Ornum, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); In re Vogel, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and In re Thorington, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 1-18 and 28-46 are provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over the claims of copending Application No. 10/761,524. Although the connicting claims are not identical, they are not patentably distinct from each other because the application claims and the patent claims recite the same basic method steps with only minor, obvious differences.

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

Response to Arguments

Applicant's arguments with respect to the rejected claims have been considered but are most in view of the new ground(s) of rejection.

It is noted that applicant has argued that Miller fails to disclose a pulse having the duration now claimed, or of a pulse that does not excessively heat tissue. With regard to the first point, the examiner agrees that Miller is silent regarding the specific length. However, the examiner maintains that it is generally known in the art that pulse

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separations may be of lengths well shorter than 200 milliseconds as fairly taught in Malis et al. The examiner further maintains that the Miller measurement signal, which is used solely to measure complex impedance, would not cause excessive heating. Finally, the examiner maintains that the since Miller disclose the monitoring of complex impedance and the duration it may last (col. 6, lines 40-50), the information obtained from the measurement period would also correspond to, and fairly indicate, the duration of the complex impedance.

With regard to claims 14 and 41, the examiner maintains that the Yates et al disclosure of the use of a look-up table remains relevant despite not selecting the same parameters. That is, Yates et al teach that a look-up table may be used in lieu of algorithms for determining values in an RF electrosurgical system. That Yates et al is not specifically using the look-up table to arrive at values for the generator is not on point. Miller clearly provides a correlation between measured complex impedance and the output level for voltage and power in subsequent pulses. The correlation is provided by an algorithm in a processor. However, the examiner maintains that Yates et al fairly teach that in lieu of using linear processing to arrive at designated values, look-up tables may be used to provide correlating data to measured signals. One of ordinary skill in the art would certainly recognize that the use of such look-up tables would apply to a wide variety of applications, and the examiner maintains that the skilled artisan would obviously recognize that such a look-up table may be used in place of the Miller algorithms to arrive at pulse characteristics.

Conclusion

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Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael Peffley whose telephone number is (571) 272-4770. The examiner can normally be reached on Mon-Fri from 6am-3pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Linda Dvorak can be reached on (571) 272-4764. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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April 10, 2007